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The Dorsetshire and Poole Atari User Group's Newsletter



BOPMUG

80p

August 1988

Issue 4

**The 8-bit Mouse
Star Chart - The Rebel Universe
Turbo Basic de-Tokeniser**

Software reviews and the Latest News



The Crew

Editor-in-Chief _____ Captain
 Bureau Editor _____ NOS Computer
 Mail Language _____ Dragon Keyser

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B-04

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 OS/2/Kernel & Mac/Kernel
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The B-04/02 are a profit-making
 organization and no members make
 money from their earnings.

Contents

Programs

The 8-bit Mouse 12

The first article describing how to use the Apple II Mouse
 with the Apple II-40 range of computers. Includes details
 of 8-16, no power, the basic layout, reader, along with
 details on how to use the report code from within your own
 program.

Turbo Basic de-Tokener 20

De-tokenize those lost, basic programs

Special Features

Adam Show Reports 22

B-04/02 presents a review on the first Adam Show to be held
 at the Alexandra Palace.

Star Chart - The Robot Unwound 4

The computer, Star Chart, yet to be published for the
 first time since Star Trek - The Robot Unwound.

The Apple II and Robots 24

Brief details on the two robots that can be constructed using
 Apple II.

The Price To Advertise - A Survey 18

A survey of computer magazine advertisement costs.

Reviews

Cade 25

Tari Talk 14

VCS Game Servers 11

California Games & J. Pac-Man.

Regular Features

B-04/02 News 13

Up-to-date news for B-04/02 members

Dungeons and Dragons 24

We've managed to bring our Dragon Server party from his
 duties in order to write a column on D&D. To start an
 introduction to what it all means.

Info 19

The Properties / Subscriptions / Subscription Offer /
 Copyrighted Subject Matter.

Inside Turbo Basic 15

Details on the release required to produce more with the
 Turbo Basic manual. With more information on how
 to produce are produced using the Apple II-40/02
 code.

Notice Board 3

All the latest news planned by for you to read.

Product Update 25

News on the latest, old, new, books, and software.

Show Dates 22

Dates for future computer shows

Software Roundup 10

News on the latest software releases.

User Group File 26

What to expect from group? Yes, there's been for your local
 group.

Notice Board

Staff Required

Jeppia Games are currently looking for programmers, designers and graphic artists to add to an ad of freelance staff, to plan, conceive and design work for the Atari ST and 8-bit range of computers.

If you feel you fit these criteria and would like to pursue the Jeppia Games then contact Brian H. Jelling, Software Director, on 01-6331-6881. Send additional examples of your work to him at 28 Osborne Road, Weymouth, Dorset DT99 1JN.

Business System for Atari 8-bit

ComputerWise UK have just released TurboTax - a fully integrated business system for the Atari 8-bit range of computers. for £129.99

Features include: individual accounts, word processor, spreadsheet, graphics facilities, communications, stock control, payroll system and file management. The TurboTax also supports all the hardware configurations including the 8-Touch cartridge, MEG board, harddisk and LAN Cardset.

ComputerWise UK can be contacted on 01-751 1276

ST Portable

Set 5 at the Personal Computer Show.

If you are at the Personal Computer Show being held at Earl's Court from the 10th to 11th of September check out the Atari stand. As you are my laptop you'll find first glimpse of the ST Portable computer.

Atari UK have just confirmed that they are developing the portable as well as the Atari which hopefully will be at the show also. Also look out for the CD-ROM and 1990's line with Atari chips.

or at the Atari Fair Christmas Show?

If you are looking for PC Show, then don't forget to check out the Atari stand at the Atari Fair Christmas Show being held at the Alexandra Palace between the 17th and 19th of November when once again it is hoped that both machines will be on display.

If you are going to the Atari Fair Show then have a look at the back page and use the following Ticket order form to obtain all 12 issues of your choice. The order form can be obtained with the Inside Atari magazine and also from a number of other outlets within the show grounds.

Art Director & Atari break into textile design.

Marion Brown, a young freelance designer working from a studio in London's Docklands, has taken the Atari ST personal computer into the world of textile design.

Using an Atari 1050ST colour system and Microsoft's Art Director, Marion has spent the last 4 months working up a portfolio of original fabric and wallpaper designs which have been favourably received by industry giants like Deane - even though many of these companies have computerised design systems costing many times more than an Atari ST.

To coincide with the new version, Microsoft are, from September 1st 1989, offering Art Director and related program File Director, as a combined package priced at just £49.99. Until now, the two packages, purchased separately, would have cost £100.00.

Art Director is a sophisticated design program offering a wide range of facilities, including the ability to duplicate patterns of any size and also those patterns as postscript and to select the colour gradients of colour required by the designing designer.

File Director can take in designs created with Art Director (and other ST graphics programs) and also elements of these together to produce annotated sequences. These sequences can be transferred to microfilm with the use of a sample generator, providing an ideal medium for presentation.

Microsoft can be contacted on 01-877 4837 and Marion Brown can be contacted on 01-471 0734.

The Computer Store

A new computer store has recently opened within the Southwark & South area. The new store, Columbia Computers, is situated at 17 Columbia Road, Southwark (near Peckham). David Pearce, the proprietor, can also be contacted by telephone on 0893 23544.

The store is open from 10am to 6pm on Monday to Wednesday & Southwark from 1pm to 6pm on Thursday and Friday.

Software for all the major companies is stocked, including the Atari ST. Software for the VCS and 8-bit machines can be ordered.

Star Chart - The Digital Universe

Still stuck within the Quarantine Zone?

You, then the following Star Chart, may help you complete your first year mission.

For those of you less or confused, the following Star Chart is for the finished year Star Tool - The Rebel Universe. The United Federation of Planets have set-up a Star Sphere, with a 100 light year diameter, centered upon the star Delta4 vehicle Sagittarius A88. This sphere, referred to as the Quarantine Zone, has been affected by a Klingon asteroid which is used to restrict the sightings of Federation starships to that of the Klingon Star plot.

The game has several possible winning scenarios which include converting Federation starships back to the Federation, destroying the Psi meter (the Klingon location), building a neutral permanent connection to the Fed, or trying to destroy the Klingon Admiral. The

following star chart, though still incomplete, will help with all these scenarios.

One way you cannot win is by destroying all the Klingon starships. Firstly there are too many and secondly you can't go looking for them (they never looking for you). You can however the approximate number of starships within the Quarantine Zone is as follows:

- 200 Rebel Starships
- 100 Romulans
- 1000 Klingon

In order to play the game successfully you must monitor the star globe. This is not possible which puts in vital and makes playing through these layers called the

Quarantine Zone the biggest zone and the Local Zone. Each zone is a sphere starting to 100 light years across for the Quarantine Zone, 20 light years for the Regional Zone and finally 10 for the Local Zone. On the star chart the zone which is found without a mark (by the letters) R and L, after the star co-ordinates. Once you have entered the star globe the rest of the game becomes easier.

The star chart simply shows you where the best details the mapped systems and any system which some information is known. Its second detail is the un-mapped systems. The strategy for each entry within the mapped systems are as follows:

1. Star name
2. Co-ordinates / star
3. Alliance / No. of planets
4. Planet types
5. Known level on life supporting planet.

The entry for the un-mapped systems follows the same format except that only the first three entries are present.

Some basic information. The co-ordinates for each of the star systems, as well as giving the X, Y and Z co-ordinates also provide the level of the system. For example, the co-ordinates 0/11/31 would give the system the same location. This is produced by having the co-ordinates around by one example between 00/00/00 and using each number as a scale in the hours making up days/months/years. In our example 31 gives us 12 gives us 12 and 0 gives us 0/12. All the systems have follow the same. There is also probably more information hidden into the co-ordinates than just the same, but I have not yet found them. One side effect of this technique is that all the systems have an un-discovered name and are therefore difficult to remember.

The key to the planet types can be found separately, which by the way are based on Life Supporting planets are as follows:

Key To Life-Supporting Planets

1P	Starball Plot	Map region does not exist when no found.
1C	Starball System	Map region does not exist.
1D	Cyber Space	Map region does not exist when no found.
1E	Starball System	Map region does not exist when no found.
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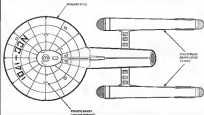
THE

[illegible][illegible]

Abstract **Background:** The purpose of this study was to determine the prevalence of self-reported depression and anxiety among a sample of young adults in the United States. **Methods:** Data were obtained from the 2007 National Survey of Adolescent Health, a nationally representative survey of adolescents and young adults. **Results:** The prevalence of self-reported depression was 10.1% and the prevalence of self-reported anxiety was 11.2%. **Conclusions:** The prevalence of self-reported depression and anxiety among young adults in the United States is high. **Keywords:** Depression, Anxiety, Prevalence, Young adults.



THE LINGUISTIC SITUATION

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Picture Credits

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Klingon Battle Cruiser

Barry M. Kato TM07d.1020

1000

100

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Journal compilation © 2006 Blackwell Publishing Ltd

Figure 1

100

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

The pictures used throughout this article were taken from the Great Britain and Fieldiana herbaria, available from the [Southampton Herbaria Project Web Site](http://www.southampton.ac.uk/~biology/Herbaria/Fieldiana) for the May 2004 range of collection.


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100 FOR ADDRESS IN WORDS:PRINT:END
110 GOTO 100
120 FOR ADDRESS BY WORDS:PRINT:END
130 FOR ADDRESS BY WORDS:END
140 --
150 FOR ADDRESS=0
160 PRINT:FOR ADDRESS=0
170 FOR ADDRESS=0
180 END
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BaPAUG News

Weekly issue of your beloved the BaPAUG member's very own newspaper of news. Weekly it will be the newspaper, and used to display several different types of news software, computer, and other information to local efforts.

Not all will receive, please consider to keep this newspaper in the BaPAUG's hands. The newspaper will be the BaPAUG's hands in the future. The newspaper will be the BaPAUG's hands in the future. The newspaper will be the BaPAUG's hands in the future.

One year the BaPAUG will be in the future. The BaPAUG will be in the future. The BaPAUG will be in the future. The BaPAUG will be in the future.

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100 FOR ADDRESS IN WORDS:PRINT:END
110 GOTO 100
120 FOR ADDRESS BY WORDS:PRINT:END
130 FOR ADDRESS BY WORDS:END
140 --
150 FOR ADDRESS=0
160 PRINT:FOR ADDRESS=0
170 FOR ADDRESS=0
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870 END
880 END
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The BaPAUG News is a weekly newspaper, and is the BaPAUG's hands in the future. The BaPAUG will be in the future. The BaPAUG will be in the future. The BaPAUG will be in the future.

If you are going to the BaPAUG's hands in the future, the BaPAUG will be in the future. The BaPAUG will be in the future. The BaPAUG will be in the future.

Weekly, the BaPAUG will be in the future. The BaPAUG will be in the future. The BaPAUG will be in the future. The BaPAUG will be in the future.

Since the last issue of *T&E* I've had several requests for information on the volume control in product mode, with the 801000 conceptual volume Turbo Basic. 801000 is an enhanced version of 800000 that allows the use of bit-contribution at the expense of channels. There are several differences in the control values for normal 8-bit mode, but none for the 16-bit volume register Turbo Basic. Hopefully this article will correct the confusion as well as giving an insight into how the new 4-bit conceptual product mode.

In order to answer the specific question Table 1 shows the required values for both fixed 16-bit mode along with the normal frequency produced for the constant rates assumed in 8-bit mode. A note which is either 30% (or in 20% stage) a midway frequency may occur in the normal mode. The output frequency produced has to be either 10% of a reference value for 4-bit sound outputs.

Looking at Table 1, the first thing you will notice is that 16-bit mode gives you a greatly increased bandwidth and a better frequency accuracy.

To understand why these values are required it is necessary to have a brief knowledge on how the *POWER* chip within your *Amiga* produces sound.

For each sound channel there are a pair of registers that control the frequency, duration and volume. These registers are called *AUDCH* and *AUDCN*, where *n* is the channel number. *AUDCH* can be found at location 80000, with *AUDCN* at 80008. The other three pairs follow after this. Along with these registers is an additional one called *AUDCTL* (80000), which is the control mode control register.

The *AUDCH* register controls the frequency of the tone produced. The number *N* (given later in the 16-bit section of this) channel has to be used within a fixed 16-bit mode. That for every *N* pulses or there are pulses on, it should be noted that the tone produced is in the mode of a sine wave but is a sequence of approximations. With normal 4-bit mode the frequency of the tone is divided by *N* (where *N* is 80000) (Hz). To determine the required value of *N* for each of the required frequencies the following formula is used:

$$N = \frac{80000}{\text{Freq}} \times 2$$

Then the *AUDCN* value for each of *C* (Hz) will be:

$$N = \frac{80000}{\text{Freq}} \times 2 \times C \times 100 \times 10$$

Of course this value cannot be used as only integers are allowed, that giving us an in-built rounding error in raised tones.

The *AUDCN* register is used to set the volume and duration level for each channel. The register breakdown is shown in Figure 1.

The volume only needs to be used in the value specified by Volume level range in the *TP* register without modifying it with the frequency. This means the register has to be updated the changing volume (volume) and then produce. To use the sound of you want set the volume to zero.

The duration value are used to select a combination of poly counters whose output are AND'ed with the pulse produced by the frequency divider (*AUDCH*). The relatively more complex, then increasing the volume of duration.

With all these values set in the required values a tone is produced by following the following procedure:

1. Divide input frequency (80000 Hz for 16-bit channel) by the value stored within *AUDCH*.
2. Using the selected poly counter then the pulse produced by step 1.
3. Divide the resultant pulse width by 2.

In order to produce better quality sound the data has to be regularly updated the frequency register to produce 16-bit division. There are possible between 16-bit channels, one 16-bit and one 8-bit channel or two 8-bit channels. Because to divide are produced by combining the following registers. *AUDCH* with *AUDCH* and *AUDCH* with *AUDCH*. It is also necessary to determine the input frequency (80000 Hz) then we provide the output output frequency range. All these changes are controlled by the register *AUDCTL*. The format of the register is shown in Figure 2.

To set 16-bit mode you first have to set the required bit within the *AUDCTL* register, then writing into 8-bit for 16-bit channel 1 and 2. 1 for the second 16-bit channel. Then the value *N* has to be loaded into the frequency register pair where *AUDCH* and *AUDCN* are the low bytes for each channel. The formula for determining the value *N* for 16-bit mode is:

$$N = \frac{80000}{\text{Freq}} \times 2$$

To control the volume of each of the 16-bit channels *AUDCH* and *AUDCN* are used.

In order to achieve this *Amiga* you will have to write machine code instead to control the sound *J* (note) of the output constant only supports 1-bit resolution. With Turbo Basic the adjusted conceptual 801000 provides the means to produce 16-bit mode (see within your program, then increasing the accuracy of achieving about the above value. The structure of the

000000 channel within TurboBASIC is as follows:

000000 channel, frequency, 00000000, volume

where

channel = 0 to 1

frequency = 0 to 65535 (see Table 1 for values corresponding to each note)

duration = 0 to 14 (p-values only)

volume = 0 (silent) to 15 (loudest)

As well as the increased frequency range over the standard instrument has also provided a sum of all sounds/channels by using just the instrument. For pure tones the duration value should be set to 15.

That's it for this topic, sorry everyone is boring. The last step of Kartridge design is to try to make the above additional components necessary to those basic parts that you've already got and from the implementation. If you have a good time, writing a Turbo Basic which uses the 000000 channel does not take much time and we'll put together a 6502-like bit of music. If that was a really boring way of doing it.



Figure 1: Breakdown of 68000 Register



Figure 2: Breakdown of 68000 Register

Note	Frequency	F#C#		
		Harmonic Index	Frequency Product	% Error
1	130.81			
2	146.83			
3	164.81			
4	184.99			
5	207.65			
6	233.08			
7	261.63			
8	293.66			
9	329.63			
10	369.99			
11	415.30			
12	467.10			
13	525.73			
14	591.76			
15	666.48			
16	750.42			
17	844.34			
18	949.06			
19	1066.27			
20	1196.77			
21	1341.27			
22	1500.67			
23	1675.91			
24	1868.13			
25	2078.37			
26	2307.77			
27	2557.39			
28	2828.31			
29	3121.61			
30	3438.39			
31	3779.74			
32	4146.77			
33	4540.50			
34	4961.94			
35	5412.19			
36	5892.26			
37	6403.17			
38	6945.94			
39	7521.59			
40	8131.14			
41	8776.61			
42	9459.02			
43	10179.39			
44	10938.74			
45	11738.11			
46	12578.51			
47	13461.04			
48	14386.80			
49	15356.80			
50	16372.05			
51	17433.56			
52	18542.34			
53	19699.49			
54	20906.02			
55	22163.04			
56	23471.56			
57	24832.69			
58	26247.44			
59	27716.81			
60	29241.81			
61	30823.44			
62	32462.70			
63	34161.59			
64	35921.11			
65	37743.36			
66	39629.44			
67	41581.45			
68	43600.49			
69	45688.66			
70	47847.06			
71	49976.79			
72	52178.94			
73	54454.61			
74	56804.90			
75	59230.91			
76	61733.74			
77	64315.49			
78	66978.16			
79	69723.75			
80	72553.26			
81	75467.79			
82	78468.34			
83	81556.91			
84	84734.50			
85	87992.11			
86	91330.74			
87	94751.39			
88	98255.06			
89	101842.75			
90	105515.46			
91	109274.19			
92	113119.94			
93	117053.71			
94	121076.50			
95	125189.31			
96	129393.14			
97	133689.09			
98	138078.16			
99	142561.35			
100	147140.66			
101	151817.09			
102	156592.64			
103	161468.31			
104	166446.10			
105	171527.01			
106	176713.04			
107	181996.29			
108	187378.76			
109	192861.45			
110	198446.36			
111	204134.49			
112	209926.84			
113	215824.41			
114	221828.10			
115	227938.91			
116	234157.84			
117	240485.89			
118	246924.06			
119	253473.35			
120	260134.76			
121	266909.29			
122	273797.94			
123	280801.71			
124	287922.60			
125	295161.71			
126	302520.04			
127	310000.69			
128	317604.76			
129	325334.25			
130	333190.16			
131	341173.49			
132	349285.24			
133	357526.41			
134	365897.99			
135	374399.98			
136	383033.39			
137	391799.22			
138	400698.47			
139	409732.14			
140	418901.23			
141	428206.74			
142	437649.67			
143	447230.02			
144	456948.79			
145	466806.98			
146	476805.69			
147	486945.92			
148	497227.67			
149	507651.94			
150	518219.73			
151	528932.04			
152	539789.87			
153	550794.22			
154	561946.09			
155	573246.48			
156	584696.39			
157	596296.82			
158	608048.87			
159	619953.54			
160	632011.83			
161	644224.74			
162	656593.27			
163	669118.42			
164	681791.19			
165	694612.58			
166	707583.69			
167	720705.52			
168	733978.07			
169	747402.34			
170	760979.43			
171	774709.34			
172	788593.07			
173	802631.62			
174	816825.99			
175	831177.18			
176	845686.19			
177	860354.02			
178	875181.67			
179	890169.14			
180	905317.43			
181	920627.54			
182	936099.47			
183	951733.22			
184	967529.79			
185	983489.18			
186	999612.39			
187	1015899.42			
188	1032341.27			
189	1048938.94			
190	1065692.43			
191	1082602.74			
192	1099669.87			
193	1116893.82			
194	1134274.59			
195	1151812.18			
196	1169506.59			
197	1187357.82			
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199	1223530.74			
200	1241852.43			
201	1260330.94			
202	1278966.27			
203	1297759.42			
204	1316711.39			
205	1335822.18			
206	1355092.79			
207	1374523.22			
208	1394114.47			
209	1413866.54			
210	1433779.43			
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219	1620229.54			
220	1641750.83			
221	1663433.84			
222	1685278.57			
223	1707284.92			
224	1729452.89			
225	1751782.48			
226	1774273.69			
227	1796926.42			
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263	2722562.22			
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265	2780522.98			
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273	3019586.42			
274	3050281.69			
275	3081157.48			
276	3112213.79			
277	3143450.52			
278	3174867.67			
279	3206464.24			
280	3238240.23			
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285	3400000.48			
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304	4076819.69			
305	4115194.28			
306	4153849.39			
307	4192784.92			
308	4231999.97			
309	4271495.54			
310	4311271.63			
311	4351328.24			
312	4391665.37			
313	4432283.02			
314	4473181.19			
315	4514359.88			
316	4555819.09			
317	4597558.72			
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The Price To Govertine \$ 3.95 each

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The following table lists the mean (in dollars) and standard deviation (in parentheses) for each of the computer magazines surveyed. Also located each magazine's circulation figure. The figure under each of the entries is a measurement of that magazine's content, value and its relationship to the National Science

1. **Introduction**
 2. **Methodology**
 3. **Results**
 4. **Discussion**
 5. **Conclusion**
 6. **References**
 7. **Appendix**
 8. **Index**
 9. **Table of Contents**
 10. **Figure 1**
 11. **Figure 2**
 12. **Figure 3**
 13. **Figure 4**
 14. **Figure 5**
 15. **Figure 6**
 16. **Figure 7**
 17. **Figure 8**
 18. **Figure 9**
 19. **Figure 10**
 20. **Figure 11**
 21. **Figure 12**
 22. **Figure 13**
 23. **Figure 14**
 24. **Figure 15**
 25. **Figure 16**
 26. **Figure 17**
 27. **Figure 18**
 28. **Figure 19**
 29. **Figure 20**
 30. **Figure 21**
 31. **Figure 22**
 32. **Figure 23**
 33. **Figure 24**
 34. **Figure 25**
 35. **Figure 26**
 36. **Figure 27**
 37. **Figure 28**
 38. **Figure 29**
 39. **Figure 30**
 40. **Figure 31**
 41. **Figure 32**
 42. **Figure 33**
 43. **Figure 34**
 44. **Figure 35**
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 83. **Figure 74**
 84. **Figure 75**
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 86. **Figure 77**
 87. **Figure 78**
 88. **Figure 79**
 89. **Figure 80**
 90. **Figure 81**
 91. **Figure 82**
 92. **Figure 83**
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 94. **Figure 85**
 95. **Figure 86**
 96. **Figure 87**
 97. **Figure 88**
 98. **Figure 89**
 99. **Figure 90**
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 101. **Figure 92**
 102. **Figure 93**
 103. **Figure 94**
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 105. **Figure 96**
 106. **Figure 97**
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 112. **Figure 103**
 113. **Figure 104**
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 116. **Figure 107**
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 120. **Figure 111**
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 124. **Figure 115**
 125. **Figure 116**
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 127. **Figure 118**
 128. **Figure 119**
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 131. **Figure 122**
 132. **Figure 123**
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 134. **Figure 125**
 135. **Figure 126**
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 137. **Figure 128**
 138. **Figure 129**
 139. **Figure 130**
 140. **Figure 131**
 141. **Figure 132**
 142. **Figure 133**
 143. **Figure 134**
 144. **Figure 135**
 145. **Figure 136**
 146. **Figure 137**
 147. **Figure 138**
 148. **Figure 139**
 149. **Figure 140**
 150. **Figure 141**
 151. **Figure 142**
 152. **Figure 143**
 153. **Figure 144**
 154. **Figure 145**
 155. **Figure 146**
 156. **Figure 147**
 157. **Figure 148**
 158. **Figure 149**
 159. **Figure 150**
 160. **Figure 151**
 161. **Figure 152**
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 164. **Figure 155**
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 207. **Figure 198**
 208. **Figure 199**
 209. **Figure 200**
 210. **Figure 201**
 211. **Figure 202**
 212. **Figure 203**
 213. **Figure 204**
 214. **Figure 205**
 215. **Figure 206**
 216. **Figure 207**
 217. **Figure 208**

eq. 6) are single page items subject with AIC (the value is automatically divided by 2).⁹

Chloro-magazines that gave the Zetters, some other very similar advice to our previous partridge. I am at a loss how to find and minimize these mistakes, but I'll describe them for you.

Abstract

The package comes with a folder with the magazine's top ten lists with the slogan "Opening up the world of IT company." On average, the magazine will find five remarkable stories. The first

three massive air circulation systems. The ceiling three strong air conditioned fan-Corad, Thermaflow and Thermaflow. Thermaflow is set up to operate at the back. The objectives there are 1" and 4" down. The downflow are equally important. In the middle, large being coming out on the top half of the A/C there and also coming the edge of the other two down. Effect making the Magnum there you can realize that the package was not together when AT&T BT User was installed as a separate component, after it's about six weeks. *Amber*

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100

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It was impossible for IBM's Power Architecture technology to provide a copy that fit future needs. At that point, a request for more storage seemed like a good idea.

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Atari Show Reports

Once again I've asked the members of the BoPAUG to provide the reviews for the recent Atari User Show held at the Alexandra Palace. I would therefore like to thank both Ian and Thomas for their thoughts about the show. I would also like to thank Ken Ward and Database Exhibitors for making it possible for us to be there.

The show was held at the Alexandra Palace for the first time to cope with the demand for floor space required by so many exhibitors - and I must admit that there are advantages and disadvantages to this, but more of this later.

If you have never been to the palace before then I suggest that you do so if ever the chance arises as it is truly wonderful place to behold and a marvellous setting for the show, but although all the floor space was taken up and the hall was crowded I felt that the place did not have the atmosphere of previous years.

The show itself was again good and I enjoyed my day there greatly. The User Group stand was larger this time round although we still filled our own allotted area to bursting. We were also in a better position and hence received a lot of attention. Demand for A10 and our own home grown PB software was beyond expression, again.

The second day also created a lot of AT's running the very latest software such as I Ball, Barbarian, Torque and and was always full of happy people. Software was everywhere as usual, although I didn't think this time there were any real big-name titles this time, just releases gal, real Torque and. All the latest releases were available including Time and Weyll, which was selling extremely well. Nobody could have missed Official Events, a kind of showcase stand offering discounted games, free membership at the show and all the help you could possibly need when you start to put your hair on - look out for them.

Anyway, another successful show for the Atari machine, whose support just keeps growing.

Ian Bradder



Show Dates

Show dates may interest Atari Users. Check with organizer's for entry fees and conditions.

The Personal Computer Show
14-18 September 1988
ExCeL Centre, London
Northall (01) 444-1821

The Atari, too. There has moved to a bigger location: the Alexandra Palace in London. It's no the Atari Best thing, some twisted again. That's what I like about being in a new group. Anyway, the Alexandra Palace looked very big and impressive from the outside but very run down on well. But don't judge a book by its cover, as they say in Germany. Stepping inside, there was a nice sitting area. You placed yourself down and relax as just watch the girls passing by or just order some food and drink. But I think we didn't come here for that.

Oh, hypnotizing all the waiting people to get in, we had ourselves inside the show, fighting our way through the crowd in the Best thing stand. My first duty was to get around and check out the differences between this and the old place. This is where Alexandra Palace stored jail marks, because something went on one floor and not happened on two floors like the Tower of Babel inside.

Some companies didn't show up, for example Red Hat and I-24. Epsilon, which was a little disappointing, but as I found out later, both companies were re-organizing themselves. Red Hat & Atari would have got their act together and have produced a new book coming covering the PC, I-24 and all the software. I remember Will does you guys from Manchester - how about checking in on the next issue of Atari Line and Page 4. Atari means a show, but welcome that will nobody missed there. Page 4, Atari's really in writing this.



Anyway, it was all go, the stands were always busy, the people wandering around, enjoying themselves playing games in the middle area, asking questions in the new group stand or just buying BT's, GE's or whatever.

Typically I caught myself in disk number, very useful little gadget indeed. In more times I was trying to use a mouse-like. I also found plenty of old Atari software which is in my opinion the best software if you compare it with nowadays. This is of course, not always true. Thunderbolt has produced the publishing team and maybe, maybe, but then again this is their old software thrown together and packed here and there. Typing in a company I'm looking to like more and more have produced a good BT in print game or in great graphics and Four Great Games 2, the best compilation so far. Many in that Typing's I buy all your products.

Finally, new PC games, Success Games, Wonder Games, California Games, Activities Games, everything was there and plenty to choose from.

So, all in all, it was a very good show and I hope to see you all again at the PCW or the next Atari Show.

Thomas Nelson

Desktop Publishing Show

13-15 October 1983

Brunswick Design Centre

Darkest Exhibition (0625) 879858

The Atari User Christmas Show

21-23 November 1983

Alexandra Palace, London

Darkest Exhibition (0625) 879858

Dungeons and Dragons

Welcome to the world of *Daigremore and Engrose*, as if you've never played Fantasy Role-Playing. Or, not that at the beginning, when is Fantasy Role-Playing? It's just it's simply letting your imagination run wild... and why not? *Daigremore and Engrose* is just one variation of Fantasy Role-Playing. But for instance: We'll show you.

The game itself does not require a playing board, although a few setups will be handy to give a visual description of the board to which your adversary is to join them.

The game is controlled by the Dungeon Master, who should be an experienced 3+3 player. The DM can either paraphrase which are purple worms, or alternatively, describe the rest. The DM controls the rest of the creatures, or whatever effects are possibly known as the other characters. **AD&D**

The play was written in collaboration with special play director

Blackwell Publishers Ltd. 2001

100

1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.
 2. *Journal of the American Medical Association*, 2000; 283: 2693-2698.

1. *Journal of the American Medical Association*, 2000; 283: 2689-2695.

Then you have those backswimmers you can then begin to build your character. You must try to decide what is best for you character and always carry, for example a Fighter would need a high figure of strength and dexterity for fighting, or another example a Wizard. (You could need to be intelligent and also

Chen: The players are happy with their characters, the Dungeons & Dragons. It may be the only party with respect and magical items will be more obvious.

The adventure is over, about to begin and the Dragoness Mages have regained the academy, the players finally getting to see the Dragoness Mage Academy. A little bit of a break from the action.

This has many basic descriptions of the game, but please do not be put off by the game's apparent simplicity, or its content's local design; please try to get into it, or please order in the B&W stationery run with confidence to find a reason for it.

III. Anybody in the Downtown and Midtown areas interested in playing Dungeons and Dragons please contact me on 800-435-7433 and ask for Mike.

The Atari ST and Robots

Students to receive Personal Budget Rebate by no later than 11/1/2005. For your money you get a FCB that plugs into a savings plan that is 100% made of rebates. In order to receive the rebate you'll have to buy at least \$400 worth of Logo. That's not the normal retail Logo but the Technologic Educational Logo that costs well under \$1000 a unit. For more information see the 2005 Logo Technologic Educational Catalog. The catalog can be found at www.technologic.com. You can also see Pricing - Technologic systems or you may have heard someone say "Logo" and mean the LAMP that.

The software supplied with the system is that supplied with the more expensive software. The hardware supplied provides 16 channels - input and output. The output device is not to be used for power or as back. There is also a total of 16 channels.

At Small, this has been achieved by both Advanced Personnel Selection, which strategically establishes the right fit within the organizational environment, while at the same time put those same candidates forward, influence recruitment in Belgium, a chance to recruitment in Europe.

Magtek Electronic Supplies Ltd. will, at a cost, kit called the Remote Control Programmable Robot Kit with the R-1000 interface kit controlled by electronic components, including the Atari 800, with the appropriate software. The kit comes with all the electronics pre-assembled. Also provided is a remote controller, a detailed 10-page handbook, an assembly manual.

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The robot is about 200mm high and weighs around 400g. It is controlled by way of an antenna. When being controlled the movement is extremely fluid and is the result of the fuzzy logic.

© International Younger Children is that everyone can be kind to the person who will show us the right way.

Non-mouse commands include screen scrolling/movement, zoom, highlight, cursor highlight, stop movement and repeat previous movement. Other commands include start a program, turn keyboard on/off, write memory, play or compare music, draw and so on (read full spec).

For information on the other cell programs, visit the Center for Cell Research and Biotechnology website at www.ccrb.org. For more information on the other cell programs, visit the Center for Cell Research and Biotechnology website at www.ccrb.org.

The *Staphylococcus* and *Enterococcus* groupings are highlighted in red. *Staphylococcus* is an acid fast genus. *Enterococcus* is an acid fast genus.

May be contacted by contacting P.O. Box 1, Raleigh, North Carolina 27602, or by telephone at (703) 286-1111. The order form also lists a FAX#). For more information about Publix contact Arad at (703) 286-1111.

Osiris is a mixture of Thiel, Guardian, and Orpheus. The plot is quite convoluted and the idea is that there are two races, the Etheurians, and the Osiris. The Osiris are led by the five magical stones. The Etheurians abuse the Osiris to perform black magic. When an Osiris is taken to a temple, it is captured and another is built. Your mission is to rescue the Osiris.

You take control of a flying fighter equipped with nuclear rockets (bullet) to the game area, and movement. With the assistance of a rechargeable shield and fast speeds (about around what could be made).

When the game is over you are presented with quite an impressive animated 180-page. Once it has loaded you can control which galaxy you will defend. There are a few galaxies which contain planets with varying difficulty. You are advised to start on the easiest (Mars) to get used to the controls.

The game can be played from either keyboard or joystick, the latter being the easier option. You can re-define the keyboard should you wish which could be a feature in more games. Your flying fighter resembles the craft in the original game. However, it has only two thrusts which makes it quite manoeuvrable. Left and right are used to turn left and right respectively, back is shield, and forward is thrust. The fire button (or joystick) will release a missile which only has one hit.

Once into the game, you are shown a landscape with a few

installations dotted around. The installations are of different categories, namely being observation, training, and defence. Observation is the most useful first, better, and the training which can be done. The defence are the most dangerous, and the training which can be done. The defence are the most dangerous, and the training which can be done.

The objective of the game is to protect the base from the Osiris, this is achieved by using the shield and the training. The shield will protect the base from the Osiris, and the training will protect the base from the Osiris. The shield will protect the base from the Osiris, and the training will protect the base from the Osiris.

You have fuel which is used to fire the shield, and the shield. You can fire the shield at any time to protect the base from the Osiris. If you fire the shield you will be able to fire the shield at any time to protect the base from the Osiris.

If you fire the shield you can fire the shield at any time to protect the base from the Osiris. The shield will protect the base from the Osiris, and the training will protect the base from the Osiris. The shield will protect the base from the Osiris, and the training will protect the base from the Osiris.

Product Update

Since the last issue of ERS we have received several press releases from various companies. We thank you for these companies - Thank You.

Thelma's Technology has announced addition to the Matrix Group of Companies and have been named as the only manufacturer and distributor for the last 17.

The above available, along with disk cover (including VHS) at:

Matrix (as described) / Matrix (as described)	£199.00
Matrix (as described) / Matrix (as described)	£199.00
Matrix (as described) / Matrix (as described)	£199.00
Matrix (as described)	£199.00
Matrix (as described)	£199.00

All are 12 inch hard disk drives in a 12" x 14" x 14" case, for the last 17. All are shipped fully formatted and ready for use. For more details contact: John M. Miller (0207) 40444.

Under 12 inch hard disk drives announced price reduction under 12 inch hard disk drives for the last 17. The above price (including VHS) are:

SuperDrive	£199.00	£199.00
SuperDrive	£199.00	£199.00
SuperDrive	£199.00	£199.00
SuperDrive	£199.00	£199.00
SuperDrive	£199.00	£199.00

For more details contact: John M. Miller (0207) 40444. For more details contact: John M. Miller (0207) 40444.

Page 4 has a new product called TufTalk which allows you to transfer files between your 8 bit Amiga and your ST. See the review page for the issue of ERS.

User Group File

Looking for your local User Group? Then check out the map-reports to find the nearest group and give its contacts a call. If you would like your User Group to be included within our User GroupFile, please send the following information to BUG@pubnet.se (page 2).

The group name.

The meeting name, address and telephone number.

Meeting place (if any) and time of meeting (eg. 1st Friday each month).

Name of Newsletter and where it sends.

Special interests within the group.

And finally a copy of the map, with a cross showing us where you live.

Every group will be added to the information compiled by each group. The map will be useful to indicate where the groups are situated.

Name: Birmingham User Group
Contact: N/A
Address: 11 Euro House, Yardley, Birmingham, B21 8YT
Meeting: XL-01, Meetings, 1993

Name: Birmingham & Poole Area User Group (BAPAG)
Contact: Colin Ross - 0902 273881
Address: 104 Wotton Road, Oakdale, Poole, Dorset.
Meeting: 1st Friday every month at the Glaxo Community Centre, Poole, Dorset, Wotton Lane, Dorset.
Newsletter: 2-14

Name: Cardiff Area IT User Group
Contact: Alan Griffiths
Address: 48 Chelva Road, Cardiff, CF1 4BT
Meeting: IT, Meetings

Name: East IT Book Users Group
Contact: Simon Burt
Address: 45 York Road, Brighton, East BN1 5BB
Meeting: IT, Newsletter

Name: ERSB Stoke's Computer Club
Contact: John Corbridge
Address: Education Centre, 194B Stoke, Plymouth, Devon
Meeting: XL-01 Users, Meetings

Name: John Player Computer Club
Contact: Brian Smith
Address: 17 Trinity Road, Bracon, Rylands, Merseyside, M20 1LB
Meeting: XL-01 Users, Meetings

Name: Lee Valley Local User Group
Contact: Matt Topleman
Address: 101 Colston Lane, Oldham, Walsley Town, Merseyside
Meeting: XL-01 Meetings Newsletter

Name: London Area Computer Enthusiast (LACE)
Contact: Glenn Leach
Address: 143 Elmwood Road, Leytonstone, London E15 4BT

Name: Marnescliffe Area Club
Contact: Ken Hall
Address: 64 Flaming Way, Gosport, Hants
Meeting: IT, Meetings Newsletter & 1993

Name: Norwich User Group
Contact: Ken Ward - 0693 661 148
Address: 48 Colchester Road, Lakenham, Norwich NR1 1PW
Meeting: 1st Friday every month. Contact Ken for time and place.
Newsletter: N/A

Name: Rough Area Users Club
Contact: Colin Jones
Address: 17 Trinity Road, Bracon, Rylands, Merseyside, M20 1LB
Meeting: XL-01 Meetings

Name: South Eastern Group (SEPG) (SEPG)
Contact: Glenn Leach
Address: 143 Elmwood Road, Leytonstone, London E15 4BT
Newsletter: 1993 N/A

Name: South West IT User Group
Contact: Karl Feller
Address: 109 Park Avenue, Exmouth, Devon, PL4 8TF
Meeting: IT, Meetings Newsletter

Name: IT London User Group
Contact: Harry Mills
Address: 14, Southwark Bridge, Southwark, London, SE1 1TA
Meeting: IT Meetings Newsletter & 1993

Name: Thames Area Users
Contact: Anthony Cox
Address: 61 Elm Hill, Carleton, Cheshire, Leiston, W1 1BC
Meeting: XL-01 Meetings

Name: Tyne & Wear Area User Group
Contact: P. Cooper
Address: 10 Maple Grove, Ellwood, Sunderland, NE1 1PW
Meeting: XL-01 Meetings Newsletter

Name: The UK Area Computer Club
Contact: Ray Smith
Address: P11 Box 1, Rayleigh, Essex S20 8LJ
Meeting: 1993
Newsletter: XL-01

Name: UK IT Club
Contact: Tony Topleman
Address: 101 Colston Lane, Oldham, Walsley Town, Merseyside, M20 1LB
Meeting: IT Newsletter

Name: West End Area User Group
Contact: Alan Clark
Address: 101 Colston Lane, Oldham, Walsley Town, Merseyside, M20 1LB
Meeting: XL-01 Meetings

Name: West User Group
Contact: Norman Burt
Address: 45 York Road, Brighton, East BN1 5BB
Meeting: IT, Meetings Newsletter

